

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 6167 (1971): Thin Parallel Keys and Keyways [PGD 31:
Bolts, Nuts and Fasteners Accessories]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

REAFFIRMED

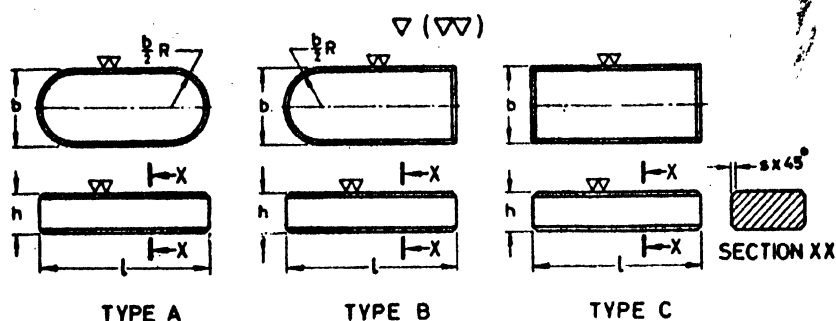
21 - 2006

SPECIFICATION FOR THIN PARALLEL KEYS AND KEYWAYS

1. Scope — Dimensions and tolerances for thin parallel keys and keyways.

2. Dimensions

2.1 Keys



All dimensions in millimetres.

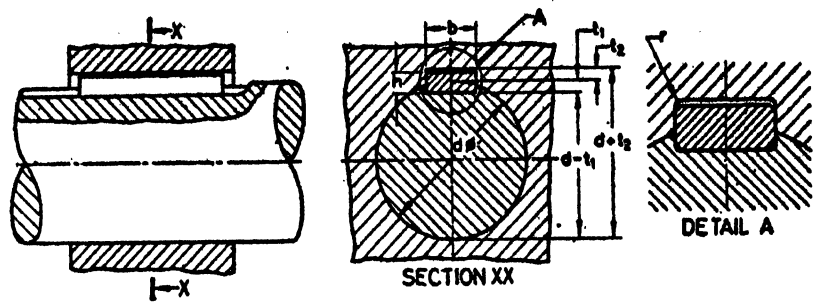
b	Tol on b h9	h	Tol on h h11	s		Range of Key Length l	
				Min	Max	Min	Max
5	0 -0.030	3	-0.060	0.25	0.40	10	56
6		4	0 -0.075	0.25	0.40	14	70
8	0 -0.036	5		0.25	0.40	18	90
10		6		0.40	0.60	22	110
12	0 -0.043	6		0.40	0.60	28	140
14		6	0 -0.090	0.40	0.60	36	160
16		7		0.40	0.60	45	180
18		7		0.40	0.60	50	200
20	0 -0.052	8		0.60	0.80	56	220
22		9		0.60	0.80	63	250
25		9		0.60	0.80	70	280
28		10		0.60	0.80	80	320
32	0 -0.082	11	0 -0.110	0.60	0.80	90	360
36		12		1.00	1.20	100	400

Adopted 23 July 1971

February 1972, ISI

Gr 2

2.2 Keyways



All dimensions in millimetres.

Range of Shaft Dia <i>d</i>		Key <i>b</i> × <i>h</i>	Keyway												
			<i>b</i>	Tol on <i>b</i>						<i>t</i> ₁	Tol on <i>t</i> ₁	<i>t</i> ₂	Tol on <i>t</i> ₂	<i>r</i>	
				Running Fit		Light Drive Fit		Force Fit							
				Above	Up to	Shaft H9	Hub D10	Shaft N9	Hub Js9					Shaft and Hub P9	Min
12	17	5 × 3	5	+0.030 0	+0.078 +0.030	0 -0.030	+0.015 -0.015	-0.012 -0.042	1.8	+0.1 0	1.4	+0.1 0	0.16	0.25	
17	22	6 × 4	6						2.5		1.8		0.16	0.25	
22	30	8 × 5	8	+0.036 0	+0.098 +0.040	0 -0.036	+0.018 -0.018	-0.015 -0.051	3		2.3		0.16	0.25	
30	38	10 × 6	10						3.5		2.8		0.25	0.40	
38	44	12 × 6	12	+0.043 0	+0.120 +0.050	0 -0.043	+0.0215 -0.0215	-0.018 -0.081	3.5		2.8		0.25	0.40	
44	50	14 × 6	14						3.5		2.8		0.25	0.40	
50	58	16 × 7	16						4		3.3		0.25	0.40	
58	65	18 × 7	18						4		3.3		0.25	0.40	
65	75	20 × 8	20	+0.052 0	+0.149 +0.065	0 -0.052	+0.026 -0.026	-0.022 -0.074	5	+0.2 0	3.3	+0.2 0	0.40	0.60	
75	85	22 × 9	22						5.5		3.8		0.40	0.60	
85	95	25 × 9	25						5.5		3.8		0.40	0.60	
95	110	28 × 10	28						6		4.3		0.40	0.60	
110	130	32 × 11	32	+0.062 0	+0.180 +0.080	0 -0.062	+0.031 -0.031	-0.026 -0.088	7	+0.2 0	4.4	+0.2 0	0.40	0.60	
130	150	36 × 12	36						7.5		4.9		0.70	1.00	



AMENDMENT NO. 1 JANUARY 1987
TO
IS: 6167-1971 SPECIFICATION FOR THIN PARALLEL KEYS AND KEYWAYS

(Page 3, clause 2.3, informal table's heading) - Substitute the following for the existing heading:

Key Section	b	5	6	8	10	12	14	16	18	20	22	25	28	32	36
	h	3	4	5	6	6	6	7	7	8	9	9	10	11	12

(Page 3, Explanatory Note) - Add the following Explanatory Note after the text:

'EXPLANATORY NOTE

This standard is in line with ISO 2491-1974 'Thin parallel keys and their corresponding keyways', issued by the International Organization for Standardization (ISO).'

(EDC 44)

Reprography Unit, ISI, New Delhi, India

2.3 Preferred Length of Key

All dimensions in millimetres.

Key Section		<i>h</i>	3	4	5	6	6	7	7	8	9	9	10	11	12
		<i>b</i>	5	6	8	10	12	14	16	18	20	22	25	28	32
Length of Key	10	10	—	—	—	—	—	—	—	—	—	—	—	—	—
	12	12	—	—	—	—	—	—	—	—	—	—	—	—	—
	14	14	14	—	—	—	—	—	—	—	—	—	—	—	—
	16	16	16	—	—	—	—	—	—	—	—	—	—	—	—
	18	18	18	18	—	—	—	—	—	—	—	—	—	—	—
	20	20	20	20	—	—	—	—	—	—	—	—	—	—	—
	22	22	22	22	22	—	—	—	—	—	—	—	—	—	—
	25	25	25	25	25	—	—	—	—	—	—	—	—	—	—
	28	28	28	28	28	28	—	—	—	—	—	—	—	—	—
	32	32	32	32	32	32	—	—	—	—	—	—	—	—	—
	36	36	36	36	36	36	36	—	—	—	—	—	—	—	—
	40	40	40	40	40	40	40	—	—	—	—	—	—	—	—
	45	45	45	45	45	45	45	45	—	—	—	—	—	—	—
	50	50	50	50	50	50	50	50	50	—	—	—	—	—	—
	56	56	56	56	56	56	56	56	56	56	—	—	—	—	—
	63	—	63	63	63	63	63	63	63	63	63	—	—	—	—
	70	—	70	70	70	70	70	70	70	70	70	70	—	—	—
	80	—	—	80	80	80	80	80	80	80	80	80	80	—	—
	90	—	—	90	90	90	90	90	90	90	90	90	90	90	—
	100	—	—	—	100	100	100	100	100	100	100	100	100	100	100
110	—	—	—	110	110	110	110	110	110	110	110	110	110	110	
125	—	—	—	—	125	125	125	125	125	125	125	125	125	125	
140	—	—	—	—	—	140	140	140	140	140	140	140	140	140	
160	—	—	—	—	—	—	160	160	160	160	160	160	160	160	
180	—	—	—	—	—	—	—	180	180	180	180	180	180	180	
200	—	—	—	—	—	—	—	—	200	200	200	200	200	200	
220	—	—	—	—	—	—	—	—	—	220	220	220	220	220	
250	—	—	—	—	—	—	—	—	—	—	250	250	250	250	
280	—	—	—	—	—	—	—	—	—	—	—	280	280	280	
320	—	—	—	—	—	—	—	—	—	—	—	—	320	320	
360	—	—	—	—	—	—	—	—	—	—	—	—	—	360	
400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	400

3. Designation — A thin parallel key of Type A having width 10 mm, height 6 mm and length 25 mm shall be designated as:

Key A 10×6×25 IS : 6167

4. Tolerances on Length of Key and Keyway

Length of Key mm	Tolerance on Key mm	Tolerance on Keyway mm
Up to 28	−0.2	+0.2
32 to 80	−0.3	+0.3
90 and above	−0.5	+0.5

5. Material of Key — Carbon steel of tensile strength not less than 800 MN/m² (60 kgf/mm²).